

ABSTRACT OF THE DISCLOSURE

An optical module for optically coupling an input side and an output side with each other through an optically functional portion inserted between the input side and the output side.

- 5 At least one of the input side and the output side includes a plurality of collimators. At least one of the collimators is made different from the other collimators in at least one of the distance between the focal point of a corresponding lens and a corresponding light exit or incident surface, the numerical  
10 aperture of the light exit or incident surface, the effective focal length of the lens, the wavelength used and the distance between optical axes of adjacent ones of the collimators so that the size and position of a beam waist on an input side are made substantially coincident with those on an output side. In the  
15 case of a fiber collimator 14 constituted by a combination of a lens 12 and an optical fiber 10, an end surface of the optical fiber serves as a light exit or incident surface and the mode field diameter of the optical fiber also serves as one of variable characteristic parameters.